

1 34014/PBH/B600' (BP 1214)

TEMPERATURE COMPENSATION FOR INTERNAL INDUCTOR RESISTANCE

5 CROSS-REFERENCE TO RELATED APPLICATIONS

is a continuation in part of serial num
This application claims the benefit of U.S. Provisional
Patent Application Nos. 60/108,459, 60/108,209, 60/108,210
filed November 12, 1998; U.S. Provisional Application
No. 60/117,609 filed January 28, 1999; U.S. Provisional
Application Nos. 60/136,115 and 60/136,116 filed May 26, 1999;
U.S. Provisional Application No. 60/136,654 filed May 27, 1999;
and U.S. Provisional Application No. 60/159,726 filed October 15,
1999; the contents of which are hereby incorporated by reference.

15 FIELD OF THE INVENTION

This application relates generally to receiver circuits and,
in particular to a CATV tuner with a frequency plan and
architecture that allows the entire receiver, including the
filters, to be integrated onto a single integrated circuit.

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BACKGROUND OF THE INVENTION

Radio receivers, or tuners, are widely used in applications
requiring the reception of electromagnetic energy. Applications
can include broadcast receivers such as radio and television, set
top boxes for cable television, receivers in local area networks,
test and measurement equipment, radar receivers, air traffic
control receivers, and microwave communication links among
others. Transmission of the electromagnetic energy may be over
a transmission line or by electromagnetic radio waves.

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The design of a receiver is one of the most complex design
tasks in electrical engineering. In the current state of the
art, there are many design criteria that must be considered to
produce a working radio receiver. Tradeoffs in the design's
performance are often utilized to achieve a given objective.

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There are a multitude of performance characteristics that must

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This application is a continuation-in-part of serial number 09/439,101 filed November 12, 1999,

which claims benefit of 60/108,459 filed November 12, 1998,
and claims benefit of serial number 60/108,209 filed November 12, 1998
and claims benefit of serial number 60/108,210 filed November 12, 1998
and claims benefit of serial number 60/117,609 filed January 28, 1999
and claims benefit of serial number 60/136,115 filed May 26, 1999
and claims benefit of serial number 60/136,116 filed May 26, 1999
and claims benefit of serial number 60/136,654 filed May 27, 1999
and claims benefit of serial number of 60/159,726 filed November 15, 1999
which claims benefit of serial number 60/113,003 filed December 18, 1998
which claims benefit of serial number 60/117,322 filed January 26, 1999
which claims benefit of serial number 60/122,754 filed February 25, 1999